

Notice of Allowability

Application No.

10/637,601

Examiner

Gregory F. Cunningham

Applicant(s)

BALAKRISHNAN ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to letter dated 05/04/2005.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 11 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

1. This action is responsive to letter received 05/04/2005.
2. The disposition of the claims is as follows: claims 1-6 are pending in the application.
Claims 1-6 are independent claims. Claims 1-3 were previously allowed.

Terminal Disclaimer

3. The terminal disclaimer filed on 05/04/2005 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date has been reviewed and is accepted. The terminal disclaimer has been recorded.

Double Patenting

4. In view of the received letter for terminal disclaimer, double patenting rejections are withdrawn.

Allowable Subject Matter

5. Claims 1-6 are allowed.
6. The following is an examiner's statement of reasons for allowance:

Claims 1-6 disclose drawing system, comprising a display; first and second input devices held by corresponding hands of a user. Whereas the closest prior art of Lawrence D. Cutler, Bernd Frohlich, and Pat Hanrahan, "Two-Handed Direct Manipulation on the Responsive Workbench" disclosure PolyShop concentrates on symmetric two-handed techniques for scaling, rotating, and stretching objects and navigating through the scene. Users can also align objects with both hands

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via anchors and constraints. In the CHIMP system [14], the user performs a unimanual operation for translations and rotations, and a bimanual symmetric movement for scales.

Then Myron W. Krueger discloses in "Videoplace and the Interface of the Future" a interface, showing the value of multipoint control. Two fingers can be used to define the endpoint of a line or the opposite as corners of a box as well positioning an object on the screen in one motion. Similarly, operator's two hands as control points for a spline curve.

Gordon Kurtenbach, George Fitzmaurice, Thomas Baudel, and Bill Buxton discloses in "The Design of a GUI Paradigm based on Tablets, Two-hands, and Transparency" simple 2D graphics to be created and edited such as circles, rectangles, triangles and polylines, but neither of the three given prior references teach drawing polylines, with the first input device designating a potential curve and the second device moving along the potential curve and converting a portion of the potential curve into the polyline; or drawing a polyline between the corresponding positions on said display with the first input device specifying a curve influence direction and the second input device converting the curve influence direction into the polyline; or drawing a polyline between the corresponding positions on said display with the first input and second input devices creating the polyline by tracing a curve using both input devices; or drawing a polyline between the corresponding positions on said display with the first input and second input devices creating the polyline by tracing a curve using both input devices; as claimed in claims 1-6.

Although "Digital Tape Drawing" by Ravin Balakrishnan, George Fitzmaurice, Gordon Kurtenbach, and William Buxton discuss the essence of said claims, however does not constitute

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prior art since it was published in 11/1999, while the priority date of the instant invention is 9/24/1999. Therefore claims 1-6 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Responses

8. Responses to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231. If applicant desires to fax a response, (703) 872-9306 may be used for formal communications.

Inquiries

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory F. Cunningham whose telephone number is (571) 272-7784.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

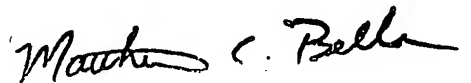


Greg Cunningham

Examiner

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05/13/2005



MATTHEW C. BELLA
SUPERVISORY PATENT EXAMINER
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